

**OD-709304/83**

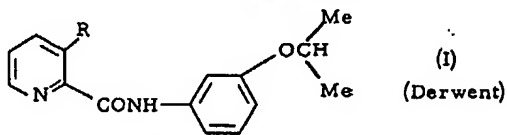
83-709301/28 C02 ISHH 30.11.81  
ISHIHARA SANGYO KAISHA \*J5 8096-069-A  
30.11.81-JP-191939 (07.06.83) A01n-43/40 C07d-213/81  
2-Pyridine-carboxylic acid anilide cpds. - useful as agricultural and horticultural fungicides

C(7-D4, 12-A2, 12-N7) 3

053

**C83-066060**

**C83-066060** 3-Methyl-3'-isopropoxy-2-pyridinecarboxylic acid anilide of formula (I) where R is Me and 3-trifluoromethyl-3'-isopropoxy-2-pyridinecarboxylic acid anilide of formula (I) where R is CF<sub>3</sub> are new



### USE/ADVANTAGES

(I) and (II) are agricultural and horticultural fungicides useful for inhibiting the growth of harmful bacteria in the culture of vegetables and crops (e.g. blackleg disease of seedlings, etc.). (I) and (II) are applied to the stem and leaf sections of plants, the soil, or seeds so as to prevent and treat harmful diseases.

## DETAILS

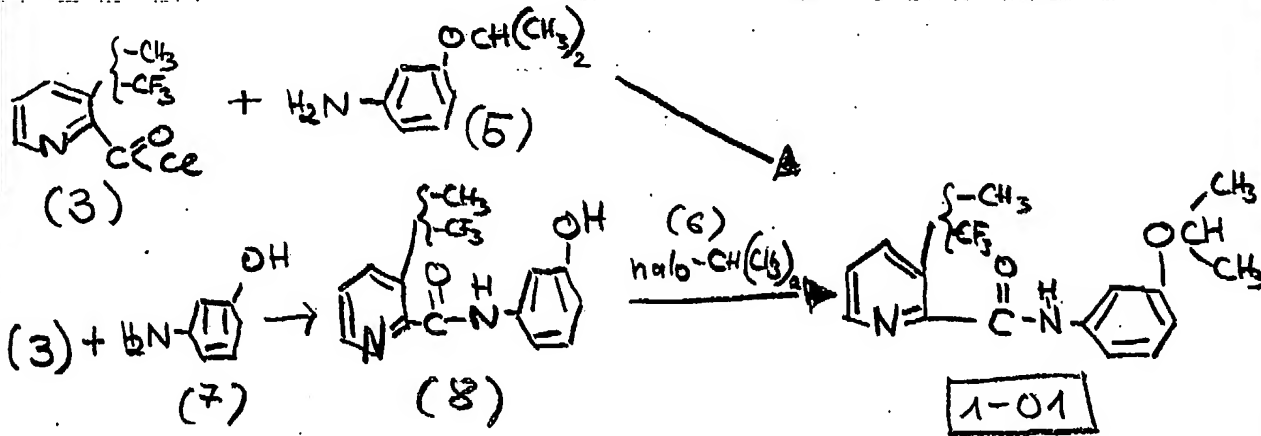
(I) and (II) may be prepd. by reacting 3-methyl- or 3-trifluoromethyl-2-picolinic acid or their reactive derivs. (III) with 3-isopropoxy aniline<sup>5</sup> in the presence of acid acceptors (IV). (III) include picolinic acid halides or anhydrides, pref. picolinic acid chloride,<sup>3</sup> (IV) include organic amines such as triethylamine and pyridine, and inorganic bases such as potassium carbonate and sodium carbonate.

(I) and (II) may also be prepd. by reacting 3-substd.-3'-hydroxy-2-pyridine carboxylic acid anilides<sup>5</sup> which is produced by general anilide formation of 3-methyl- or 3-trifluoromethyl-2-picolinic acid or reactive derivs. thereof and 3-aminophenol<sup>7</sup> with isopropyl halides<sup>6</sup> in the presence of (IV).

(I) and (II) are formulated with agricultural assistants into emulsions, dusts, wettable powder, and liq. formulations for use. (I) and (II) are generally used at 1-10,000 ppm, pref. 20-2,000 ppm. (4ppW208DwgNo0/0).

I, II: 8EG, 9GI, 9G9  
18K, 18M, 1Kφ

J58096069



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## Referate aus CENTRAL PATENTS INDEX von DERWENT

VERSCHLÖSSELT	KORRIGIERT	BEMERKUNGEN	BLATT-NR.	BLATTZAHL
Rupprecht	Müller	=CA...99.: 158263	1	1

**2-PYRIDINECARBOXYLIC ACID ANILIDE COMPOUND AND AGRICULTURAL AND HORTICULTURAL FUNGICIDE CONTAINING THE SAME**

**Publication number:** JP58096069

**Publication date:** 1983-06-07

**Inventor:** NISHIYAMA RIYUUZOU; HAGA TAKAHIRO;  
KOUIMIYOUJI TERUMASA; NAKAJIMA TOSHIO;  
MATSUO NORIFUSA

**Applicant:** ISHIHARA SANGYO KAISHA

**Classification:**

- international: **C07D213/81; A01N43/40; C07D213/00; A01N43/34;**  
(IPC1-7): A01N43/40; C07D213/81

- european:

**Application number:** JP19810191939 19811130

**Priority number(s):** JP19810191939 19811130

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**Abstract of JP58096069**

**NEW MATERIAL:**3-Methyl-3'-isopropoxy-2-pyridinecarboxylic acid anilide or 3- trifluoromethyl-3'-isopropoxy-2-pyridinecarboxylic acid anilide. **USE:**A fungicide for agricultural and horticultural use capable of preventing or curing the blight of crops such as sheath blight of rice, bakanae disease of rice, crown rust of oat, fusarium wilt of cucumber, damping off of cucumber, etc. by treating the stalks or leaves of the crop, soil, or seed. **PROCESS:**3-Methyl or 3-trifluoromethyl-3'-isopropoxy-2-pyridinecarboxylic acid anilide is prepared by reacting 3-methyl or 3-trifluoromethyl-2-picolinic acid or its reactive derivative in the presence of isopropoxyaniline as an acid acceptor.

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